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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,465	01/07/2002	Yong-boom Lee	1568.1036	4903
21171	7590	08/05/2004	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			WILLS, MONIQUE M	
			ART UNIT	PAPER NUMBER
			1746	

DATE MAILED: 08/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

10/036,465

Examiner

Monique M Wills

Applicant(s)

LEE ET AL.

Art Unit

1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-31.
3. ☒ The drawings filed on 07 January 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

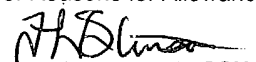
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 8/4/04.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


FRANKIE L. STINSON
PRIMARY EXAMINER
GROUP 3400 1100

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James G. McEwen on June 30, 2004.

The application has been amended as follows:

Replace claims 11 & 16-25 with the following:

11. (CURRENTLY AMENDED) The polymer electrolyte according to claim 1, wherein the lithium salt is at least one selected from the group consisting of LiClO₄, LiBF₄, LiPF₆, LiCF₃SO₃, LiAsF₆, and LiN(CF₃SO₂)₂⁻.

16. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the composition further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3~~is the composition of claim 2.~~

17. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the composition is ~~the composition of claim 4~~further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3, wherein the diacyl peroxide compounds are benzoyl peroxide, acetyl peroxide or lauroyl peroxide.

18. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the composition is ~~the composition of claim 5~~further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3, wherein the azo compounds are azobisisobutyronitrile (AIBN), azobis(2,4-dimethyl valeronitrile), or azobis(cyclohexanecarbonitrile).

19. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the composition is ~~the composition of claim 6~~further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3, wherein the peroxy ester compounds are t-butyl peroxy ester or t-amyl peroxybenzoate.

20. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the composition is ~~the composition of claim 7~~further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3, wherein the peroxy carbonate compounds are t-butyl peroxy isopropyl carbonate or t-butyl peroxy 2-ethylhexyl carbonate.

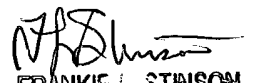
21. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the polymerization is selected from the group consisting of thermal polymerization, electron beam polymerization and UV polymerization~~the composition is the composition of claim 8.~~

22. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the polymerization temperature for the thermal polymerization is in the range of 20 to 100°C~~wherein the composition is the composition of claim 9.~~

23. (CURRENTLY AMENDED) The lithium secondary battery of claim 13, wherein the lithium salt is at least one selected from the group consisting of LiClO₄, LiBF₄, LiPF₆, LiCF₃SO₃, LiAsF₆, and LiN(CF₃SO₂)₂~~wherein the composition is the composition of claim 11.~~

24. (CURRENTLY AMENDED) The lithium secondary battery of claim 15, wherein the composition is the composition of claim 2~~further comprises 0.1 to 10% by weight of at least one polymerization initiator selected from the group consisting of benzophenone compounds, diacyl peroxide compounds, azo compounds, peroxy ester compounds, and peroxy carbonate compounds, based on the total weight of the compounds represented by formulas 1, 2 and 3.~~

25. (CURRENTLY AMENDED) The lithium secondary battery of claim 15, wherein the lithium salt is at least one selected from the group consisting of LiClO₄, LiBF₄, LiPF₆, LiCF₃SO₃, LiAsF₆, and LiN(CF₃SO₂)₂~~wherein the composition is the composition of claim 11.~~


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